

## ABSTRACT

### WATERPROOF PATIENT HANDSET

5        A present waterproof patient handset includes a speaker contained within an enclosure. The enclosure has a number of holes sufficient to allow sound to pass from the speaker through the enclosure. A foil is placed on the enclosure over the holes, and attached to the enclosure only at the foil's perimeter such that the remainder of the foil acts as a second membrane for the speaker. At the same time, the foil seals the speaker  
10       against intrusion by a liquid. A protection plate with holes sits between the enclosure and the speaker, and provides mechanical protection for the speaker. A rear cover has at least one boss having at least one deformable rib. The boss is inserted through a hole in a printed circuit board (PCB). The rib is deformed when the PCB is pressed with the front cover against the rib.

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